An Efsay on debility. d. S. Sims. Of Georgia. Paped March 23° 1827 W. & Hb.

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Elsay on Debility. Terhaps then is no situation in which a student of medicine can be placed, when he will be so incom stant, and unsettled in his opinions, as that he occupies when about to write a medical thesis - Being at, threshold of the professioon, he fulls in competent to throw his mite of original matter to the great bulk of medical information, and is compelled to encompass the educas of men who have gone before him, and place them before those who were familiar with Them long since, win who have digested them again, and again, or exect a fabrick upon a grown work of speculation, which must fall before the sesulinizing touch of the pro-

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peper. Impreped with feelings like their I cannot but approach my subject with diffiduce.

Individuals in the pursuit of truth, an too of ten misled by an underest but honest zeal, and while they too cautiously avoid the errours of others, fall themselves into those equally absurd. The medical seience has assumed new forms, and presented new aspects, according as the opinions of different influential individuals have prevailed Theories, supplanting theories, to be themselves supplanted, by old notions in new forms. Lebility, which has been considered the cause of ma my diseases, is fast travelling theway to oblivion, and perhaps will exclored

predis pos Is all as Tun and a more Than Thonger ac ystem, and uguently o unaherall premises u founded debility Lea Juction of a incident w

his entomosed with things forgotten. Some have already affirmed that it is neither itself a disease, nor a predisposing cause to disease. As all agents capable of producing disease (say They,) are stimuli in Their action upon the living system, and as disease is nothing more than an altered action, The stronger action well prevail in the system, and the disease must consequently consist in an action pre ternaturally strong. These are the premises upon which the theory is founded, which affirms that debility has no shan in the production of disease. As my views concerning it, are by no means coincident with the views of those

umarks co Let us view uquently a man inco first hart or k disprova, betorily est The indubit that all Think that a listible draw must produ wion In The buther all a ing diaease, who abet this theory I shall offer a few remarks concerning it.

Let us view the premises from which This theory has been decluced. It is affirmed that all agents capable of pro. ducing disease are stimuli, and consequently all disease must consist in an increased action. Though the first part of this proposition cannot be disproved, yet it is neither so satisfactorily established to my mind as to be indubitable cond if it be conce. did that all substances are stimuli I think that we are by no means insistibly drawn to the conclusion that must produce diseases of increased action. In the first place let us engine whether all agents capable of producing disease, are stimuli?

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Digitalis when taken into the stormach will produce disease, the ques. tion then onses whether it operates as a stirmulant or not? What are the symptoms attending its administra tron? When taken in the most modexate dose it tends directly to dissim ish the force and prequency of the pully in a large dose it deminishes it to a great extent, as from seventy, to forty, or thirty five, in a minute, occasion ing at the same time, vertigo, indistinch vipion, violent, and durable sickness, coldness of the whole body, insensibility, and death. Now it is affirmed that this medicine in its action upon the living system is a stimulant. What symptoms in the list above mentioned induce us to

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believe that it is a stimulant? Is it the coldness of the body; The greatly diminished vascular actions or the insuscibil ily of the whole system creither of these surely, tend in the smallest degree, to induce the belief, that digitalis acts as a stimulant. But here I am tola that these are secondary effects, and the substance must have acted primarily as a stimulant. Be it so, but was this excitment the cause of the succeeding debility? I must confep my incredulity upon this point, but incline more to the opinion that the article when first taken in made an impression upon the stomach gratly depressing its natural action, and extending itself by sympathy to the heart and arterial system.

wate with es disease is sall an affecto, in salutary & mousiderable

Had the impression been less in digra, There would have been a speedy reaction but bring too powerful to be resisted by the energies of the system, direct, and complete prostration was the con requence. It is not I think a fair inference, that the debility (or disease) was the effect of the stimulation, allow ing that digitalis stimulates before it causes depression, because it was preeided by it for they are not atale commen surate with each other, but it appears more reasonable to conclude, that the disease is rather the consequence of an incapacity of the system, or the part affected, to bring about a vigorous and salutary reaction, and not the consequence of an excitment so feebland inconsiderable. It is this principle of

bold has. will destr more regionally to some cloude that the and the dura Daction, car reaction, which sustains the system uninjund, amount surrounding object who it has been justly said, then is a continual warfan between living and daw matter, each ende awarring to bring the other, to its own state of instituce.

bold has a tendency directly townsher and deprop that the action of that part of the system with which it comes in contact of the degree win true and the time supplies by the part, it will destroy the vitability of the part, and me subsequent reaction will ensure the if the degree to moderation and the destroy degree to the parts will experience only a temporary devile experience only a temporary devile, and their weather every service to associate of the temporary declaration action, causing them to perform atto action, causing them to perform

; be with e Heohol wh in but this unuena of. Their functions more vigorously, while The reaction exists. So it would seem to be with every other application which ean be made to living matter, all tending to de prefs the natural action. But the deprepion occasioned by many sutstances is so inconsiderable, that the system reacts speedily, and rises about the imprepion so instantansously, That we are decived as organds their oppor ration, and pronounce them stimuli. esteonol when taken into the stomach in a moderate quantity elicits action, but this it may do by first asset ing the natural action by its own peentiar impreprior, and the reaction of The system, endeavouring to remove the imprepion, presents us with the phenomina of infrasto action.

Heron, as if Manted in the processes of a Tand ended imovator su

It is hard to believe that The mere change of the proportion the qualities of the alcohol, and the situation of the system, being exactly the same, can so completely change its action, as tops. duce effects diametrically opposite. But we are certain that by a consider able increase somewax of the quantity, we shall perceive nothing like stimulation, but directly the reverse, The individual falling and expiring as soon, as if his heart had been transfixed by a swood. When a disease is planted in any part of the system The process of nature conteres against it, and endeavours to re-establish her dominion, this she will frequent ly establish, but when a powerful innovator suddenly apails herin

on the phe Jim his debility in Unids were wased velo in unnates welling a her sober, and harmonious operation, she revolts, and unable longer to keep in motion the wonderful machinery, the phenomena of life suddenly cease. The experiments of W. Philif in his inquiry into the laws of the vital functions, go far to prove, that inflammation arises from devility in the capillary vepels. The opinion of eller Hunter was that inflammation defunded upon an increased action in the vefuls of the inflamed part, by which the fluids were circulated with an increased velocity, keeping up thereby an unnatural excitiment. But This opinion is invalidated by its incompetency to account for the swelling, and distention, of the

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vefsels, in the inflamed part. For if The vepels in this part act with augment ed energy, then we must suppose, that there would not be more blood contain. ed in them than then is under ordinary circumstances, but less, and that the velocity of of the circulation in the inflames part, and the quanty of blood contained by its repels, would always bear an inverse ratio to each other. Moreover it is a fact well known that whenever by a ligature, or long continwer prepun the circulation in a part is much impeded, it is seen to give vise to inflammation.

The experiments of W. D. lending to prove that inflammation sepend upon debility of the capillaries, were made both on cold, and warm-blow

& animal pras foot we thels began imperceptible. wioned debit ed animals. The inflamed web of a progs foot was brought before a microscope, and it was seen, when the inflammation was greatest, the circulation was slower, and in some parts which were highly inflamed, The circulation was searcely carried on atale. The tails of a fish was also made The subject of experiment, and with The same result. The mesentery of a rabbit was inflamed, and as soon as The inflammation commenced the repels began to enlarge, and the motion of the blood became more and more languid until its motion was imperesptible. He says I repeatedly or cusioned detility of the capillaries of different parts of the mesentery, by ini tating them and there saw inflam-

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mation sapidly excited by the visatingo distending the debilitated refels!"

seener we conclude that every agent capa ble of preducing debility in the capital ry reflect, whithen mechanical or chemic ear, may produce inflammation, and we believe without the debility inflammation can make supervice, and flammation, with did pleas as soon as the reflect regain their time.

If the equilibrium of the sirculation is destroyed by excelling to greater action. Sense part of the vascular system, the other parts retaining their rigar, the expeten causes sustain injury from the excitement of debutity be not the consequence. Different individuals exposes to the influence of the same cause may be affected in various ways. While me

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may have hepatitis from exposure to a hot sun, another may have bilious fever, a third dysentery, owing to the particular parts being less able to resist the debil itating influence of the cause to which they were exposed. In the last disease the question has been agitated, whether the bloody mucous discharges arose from an increased action in the capillaris of the alimentary canal, or a deminished action in them? As there is in dyseritery a phlogosa state of the mucous memorane of the intestines, I am induced to believe, that it is at least sometimes, dependant upon debility. The mouths of the absorbents wherein lies their vis insita, to take up particular substances, becoming debilitated, in

capacitales them to perform Their func-

sad serve destroy some 4the opera liple Fever upor loca from the bis

tion atale, or, but in a very feeble manner but though the exhaleuts have a corresponding debility in theseparts inmediately contiguous to the internal surface of the alimentary canal, they will not loose their function entirely, but becoming relaxed, and patulous, and serve as passive conductors, to the imperfectly elaborated fluid, sent through them by a vis a tergo, and thus destroy some The equilibrium between the absorbent and exhalent systems, giving use to dysentery. May not drop ex, the operation of catharties, Elisters &c, be all explicable upon the same prin ciples Fever also appears to depend upon local debility, and the excited pulse attending it origionating from the vis medicatrix nature, to retien

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The debilitated parts, whether they be in the skin, stomach, or elsewhen. The view which I have taken of thise diseases, might lead to the supposition that the treatment would consist in the administration of such remedies, astern to keep up The excitement, and thereby endeavour to relieve The debility, but the great disparity of strength between the . healthy, and diseases parts, would on The addition of new excitement to the general circulation, cause the already debilitated and distended capillaries to be further exhausted, and thereby in crease the disease that we attempted to remedy.

With their remarks quittemen which I offer you more as speculation, than asconformed principles to going the specific the specific to

